

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number  
**WO 2005/034903 A1**

- (51) International Patent Classification<sup>7</sup>: **A61K 7/48**, (74) Agent: **SUZUKI, Shunichiro**; S.Suzuki & Associates, Gotanda Yamazaki Bldg. 6F, 13-6, Nishigotanda 7-chome, Shinagawa-ku, Tokyo 141-0031 (JP).  
C07D 307/62
- (21) International Application Number: PCT/JP2004/015457 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 13 October 2004 (13.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
2003-353669 14 October 2003 (14.10.2003) JP  
60/512,857 22 October 2003 (22.10.2003) US  
2004-130206 26 April 2004 (26.04.2004) JP  
60/567,527 4 May 2004 (04.05.2004) US
- (71) Applicant (for all designated States except US): **SHOWA DENKO K.K.** [JP/JP]; 13-9, Shibadaimon 1-chome, Minato-ku, Tokyo 105-8518 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KATO, Eiko** [JP/JP]; c/o Corporate R & D Center, Showa Denko K.K., 1-1-1, Oonodai, Midori-ku, Chiba-shi, Chiba 267-0056 (JP). **YONEDA, Tadashi** [JP/JP]; c/o Corporate R & D Center, Showa Denko K.K., 1-1-1, Oonodai, Midori-ku, Chiba-shi, Chiba 267-0056 (JP). **OGATA, Eiji** [JP/JP]; c/o Corporate R & D Center, Showa Denko K.K., 1-1-1, Oonodai, Midori-ku, Chiba-shi, Chiba 267-0056 (JP).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AGENT FOR SKIN EXTERNAL USE CONTAINING SALT OF ASCORBIC ACID DERIVATIVE, METHOD FOR STABILIZING THE AGENT FOR SKIN EXTERNAL USE, AND STABILIZER

(57) Abstract: An agent for skin external use of the invention contains a salt of higher fatty acid ester of ascorbic acid-2-phosphoric acid ester and a polyhydric alcohol. According to the present invention, occurrence of turbidity or precipitation with time can be prevented to enhance stability even when the agent for skin external use is prepared using a specific salt of higher fatty acid ester of ascorbic acid-2-phosphoric acid ester. Therefore, the present invention is useful for all agents for skin external use, particularly cosmetics.



WO 2005/034903 A1